



OTVARC Oscillator

The Oregon Tualatin Valley Amateur Radio Club Newsletter

October 1996 Issue

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Post No Bills Space Available for Advertising

Stay Tuned for More Information The Prez Sez Returns Next Month

Jim has been soooo busy this month that he didn't have time to write an article for this month's issue.

I don't understand what his problem is; he only rode in Cycle Oregon, did all the set-up for it and is now preparing for the Portland Marathon. Seems to me that he should have had plenty of time to write a simple article.

I guess he other things to do.

<grin>

Upcoming meeting notices.

October 9th

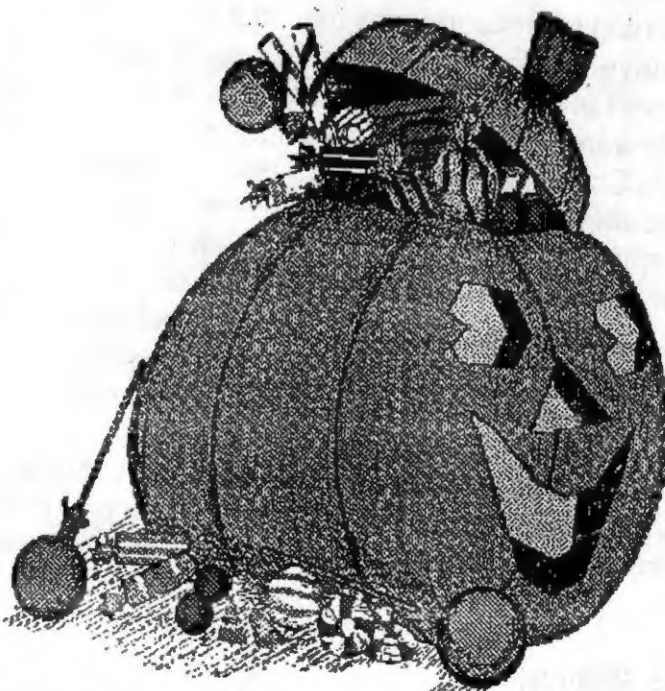
Roy Lewallen, W7EL, will give his Sea*Pac talk "Antenna Basics" followed by a Q&A session and some computer modeling of home-brew antennas. The club membership needs to provide some antennas for him to use during his discussion and also for the computer modeling. (We would love to see Darwin's slinky antenna in the light and a return visit of Will's lampshade antenna and many more. — Please bring one to share)

November 13th

Joe Kuran the Technical Systems Manager for Washington County Consolidated Communications Agency will be here to give a talk on the new 800 Mhz Trunked Public Safety Radio System.

December 11th

Put this date on your calendar for our annual Holiday Party. We will fill you in on the entertainment and special raffle prizes in November's newsletter.



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Minutes of Board Meeting 8-28-96

1. Those in attendance: Chuck Mickley, Janet Bell.
2. No business was conducted due to a lack of quorum.

Respectfully submitted,
Alan R. Chinnock KB7POR Secretary

WALK FOR THE CURE

• Buy • Sell • Trade
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N6FRA

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Estate Appraisals

As dawn broke September 15 on what threatened to be another damp and dreary day, the Mickleys headed the motorhome for downtown Portland for the Walk for the Cure fund-raiser for the Juvenile Diabetes Foundation. In the previous 24 hours over an inch of rain had fallen and things looked bad for the 2000 walkers who would be participating. As Chuck KI7CL erected the Ringo Ranger another cloud burst soaked the area around the Civic Stadium where the 3K and 8K walks were to start and finish.

During breakfast the rest of the dedicated ham radio crew began checking in and arriving on location. They included Ira KF7QS, George KC7LOP, Sharon KA7NAN, Will N7THL, and Steve KA7MOW. Their mission was to help insure that the 2000 walkers safely completed the course.

As the start time approached throngs of participants began arriving- carrying or wearing rain gear. A patch of blue sky was noticed of to the west, then another of to the north. The weather was looking up. Did the fact that Rhonda Shelby, weather anchor for Channel 2, was the celebrity chairperson have anything to do with it?

Will being over-prepared was a great help when we had an antenna failure on the CareCar. The team spirit that Ham Radio Operators exhibit is always a source of joy and pride. As the walk began Ira reported that some "street people" were giving the volunteers in the Park Blocks a hard time. Fortunately they left on their own accord before many of the walkers arrived on site. A visible police presence on the course contributed to the security of the participants. Later Will reported a similar problem from Couch Park. It also took care of itself. The rain was holding off for now, but ominous black clouds continued to be an ever-present threat. George was dismayed to find his rest stop had been changed to a water stop and then to a no-support stop. Fortunately for him there was a Starbucks nearby. Later in the morning his location was moved and an impromptu water stop was developed. We were very thankful to have Sharon and her medical expertise on site at Wallace Park when a young walker with diabetes arrived at her location in bad shape. She radioed for the CareCar to come directly to her location. While they were still in route she radioed again that his condition had worsened and that he was unconscious. Tom Cogan radioed for 911. He and Steve arrived on location in minutes followed shortly by the 911 ambulance. By that time the walker had regained consciousness and he was transported to a local hospital for observation. This incident points out rather graphically why the amateur radio communicators are such a vital part of these public service events.

The rest of the walk went without incident, although a few weary walkers were transported in to finish. When most of the walkers were safely back in the Stadium, Chuck brought me some lunch and asked what happened to his other traffic cone. At the time, I didn't know, but you could ask Sharon about the "Coan cone caper".

The Juvenile Diabetes Foundation appreciates the support of OTVARC. The walk exceeded their fundraising goal and we were an integral part of that success. As we were leaving the Stadium, the first sprinkles began and by the time we were weaving our way back home the heavy rains returned. It had been a good morning for a walk.

73, Betty N7REX

INTRODUCTION TO PACKET RADIO - PART 16 - by
Larry Kenney, WB9LOZ

In this article, let's do some reviewing. I'm going to present a short quiz on packet, covering the basics that I've presented in the past 15 parts. Let's see how well you can answer the following questions without looking back at the past articles. In Part 17 I'll discuss each question and give you the correct answers.

1. What are the three TNC modes of communication?
 - a. Connect, Converse, Terminal
 - b. Command, Converse, Terminal
 - c. Command, Converse, Transparent
 - d. Command, Connect, Transparent
2. What TNC command is used to set the transmit path for beacons and CQs?
3. What is the TNC command CHECK used for?
4. While you're connected to another station, what command is used to monitor other traffic on the frequency?
5. If you saw one of the following lines on your screen when in monitor mode, what would the asterisk indicate?
W6ABC-3>N6XYZ,W6PW-1*: Hi Bob
W6ABC-3>W6PW-1*>N6XYZ: Hi Bob
(Displays vary with various TNCs, so both common types are shown.)
6. Why does the packet node network improve communications?
7. If you're connected to a station in New Mexico using the node network, how do you disconnect?
8. If N6ZYX-2 connected to you via a node, what would the SSID of the station become at your end of the connection?
9. When you're connected to another station, what are the two most probable causes for packets not to be received by the other station?
10. There are several basic commands used on a packet bulletin board system. Indicate what you would enter to perform the following:
 - a. Receive a list of messages.
 - b. Download a file in the General (IDG) directory called FCCXAMS.89.

- c. Enter a private message to Jim, WA6DDM, who uses the W6PW BBS in San Francisco, California.
- d. Read message 7134 with complete forwarding headers.
- e. Find out what stations have been heard by the BBS on port B.

11. To send an NTS message via packet addressed to Tom Smith, 123 Main Street, Keene, NH 03431, telephone (603) 555-4321, what would you enter at the BBS prompt?

12. If a message has a STATUS of BF, what does that indicate?

13. If you received a message from a friend in Chicago that had been forwarded to your home BBS through four other BBSs and the message had a Date/Time of 0316/2245 when you listed it, which of the following is a TRUE statement?

- a. The message was written at 2:45 pm on March 16.
- b. The message was entered into the BBS by your friend at 2245 on March 16.
- c. The message was forwarded by your friend's BBS in Chicago at 2245 on March 16.
- d. The message was received at your home BBS at 2245 on March 16.

14. If you wanted to send a message to your friend John, W4IP, but you didn't know what the call of his home BBS was, what could you do to try and find out what the call is?

15. What is the maximum value for MAXFRAME? If you're working a station on 30 meters and are sending a lot of retries, should you increase or decrease MAXFRAME?

Well, how did you think you did? We'll take a look at the answers to these questions and more in part 17.

73.....Rick - KB7OGD @ KB7OGD.ORG.U.S.A.NOAM

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News From All Over

Congratulations

Congratulations to Virginia Ennes and Geno Buell on their October 5th wedding.

Special Birthday Greetings

Happy belated birthday to Katie Lepay who turned 80 this September.

George and Patricia Rickman - N7UJA & N7UUD celebrated their Golden Wedding Anniversary during September. Great Job and here is to many more you two.

Health & Welfare

Neil Mckie - WA6KLA is recouperating from a recent injury suffered while harvesting his back pasture. Seems he figures he is a "Real Man" and didn't need medical attention after a disagreement with a flying piece of debris. Neil, you may be a "Real Man", but you are not "Super Man". Take care of your self next time.

Willie Ranes - N7DZR had triple by-pass surgery on Sept 11th. All is expected to go well. Get well soon Willie.

Kay Diane Remsen, 53, wife of Ron Remsen - W7YOW passed away on September 16, 1996. Our condolences go out to Ron and his family at their loss.

Packet Classes offered by O.P.E.N.

Thursday September 26, 1996

Tonight was the first class on Packet Radio at Mount Hood Community College. We have close to 20 people who have enrolled. It was a great turnout! Thanks to Buck WT7S who opened and presented the first night. Great Job Buck! Classes will continue for the next 7 weeks. Those still interested can contact either Buck (WT7S@KA7AGH) or the college itself. Not sure if you can still enroll. For all of you who are enrolled and happen to see this message, Thank you for enrolling! We hope to enrich your skills in Packet Radio, and provide you with the information you seek in understanding how packet works, and what your network can provide.

See you next week....

73 de Todd-N7TRY
Vice President - O.P.E.N. - KC7KCC
Oregon Packet Experimenters Network

EQUIPMENT LOAN PROGRAM

If you don't operate on HF because you don't have the equipment, OTVARC may have the answer for you. Some used but very usable equipment has been donated to OTVARC for the purpose of lending it to members who do not have their own equipment. There is no cost to OTVARC members.

Right now, we have a Heath HW-101 looking for a good temporary home. This is a 100 watt 80 through 10 meter SSB and CW transceiver. We also have a few bucks in a fund to buy accessories such as an antenna tuner to lend with the transceiver if you need one of those. This is a great way to see if you like the world of HF without making a large investment in equipment. A typical equipment loan would be for a period of six months at which time the loan would be reviewed and possibly extended if the equipment is actually being put to good use by the borrower. Otherwise, we would recall the equipment and look for another person who wants to use it.

If you have some equipment that is surplus to you and you think it could be loaned to others through this program, please contact me and we will discuss it. You will not necessarily have to give up your ownership of the equipment since you will not have to actually donate it to OTVARC.

Contact Stan Griffiths, W7NI at 649-0837 if you are interested in this program.

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Phone: (503) 649-0837
FAX: (503) 591-1620

Special Election Results

The special election to find a replacement to serve out the remainder of Wes Allen's term finally happened at the September meeting. Will Sheffield - N7THL was the recipient of the most votes.

Will's term, as club trustee, will run through the end of this year.

Congrats Will. I am sure that you will of course run for re-election.....

From: Satellite Station - W7KJZ

===FO-29===

The new Japanese Satellite which last month I described as JAS-2 (replacement for FO-20) is now known as Fuji Oscar 29, or FO-29. Some of the parameters: CW TLM: 435.795 Mhz; UPLINK: 145.900 MHz - 146.000 Mhz; DOWNLINK: 435.900 MHz - 435.800 Mhz; Power: 1 W

FO-29 is in good condition and during the second week of September its digitalker was tested, and it went well. Now 9600 bps is under test. The test team is experimenting with commands and sending programs.

===New FODTRACK===

The new version of FODTRACK Ver. 1.9 is on KO-23 as file number 20C58. I do not know if it has been released to the AMSAT ftp site. This is the easy to build unit, with schematic and complete software, for a simple low cost satellite antenna control system.

===French Satellite===

Christopher Carlier F4AAT, is a member of AMSAT-F and a key member of the project team now developing a French Amateur Radio satellite called "Maele".

The Maele satellite is now under construction in France as a cooperative effort of CAC (Club Aerospatial Cellois), RACE (RadioAmateur Club de l'Espace) and AMSAT-France. It is a MICROSAT-class satellite weighing 50Kg, and it is planned that Maele will carry a 9600 BPS packet radio transponder similar to the UoSATs. It will also carry an experimental transponder with speeds up to 19.2K BPS. Besides the usual 145 MHz uplink and 435 MHz downlink frequencies, plans also now call for Maele to have a 1.2 Ghz uplink and 2.4 Ghz downlink transponder on board using experimental protocols. There is also plan for Maele to carry some form of Earth observation system as well. While no firm launch date or vehicle have been secured, the groups are now planning to have Maele in Low Earth Orbit by 1999.

===New Satellite, MO-30===

Launch of Unamsat B in September from Plesetsk, Russia was successful. David Libermen XE1TU, who heads up the UNAMSAT-B effort in Mexico, reports that the group wants their new satellite to be known as an "OSCAR". This statement came in answer to a congratulatory message sent from Bill Tynan W3XO President of AMSAT-NA, asking what they want to call their new satellite. David further indicated that, henceforth, they would like to have UNAMSAT-B called "MEXICO-OSCAR-30, or MO-30".

Preliminary indications are that all systems aboard the satellite are working well. One of their first tasks is to validate the coefficient file for the telemetry. David reports it will be released as soon as they have validated all parameters. This could take a while as there are numerous channels to be checked out over a period of several orbits. They expect to follow their checkout procedure very carefully and deliberately.

David can be reached at xe1tu@amsat.org.

**** Special Note ****

My Oct. newsletter article will be my last article. Next month my employer plans to have me out of town for most of October. After that, and for a significant period my wife and I will be traveling out of the region. This makes it impossible for me to keep current with events relating to satellites.

It has been a rewarding experience for me to write the satellite column for the OCTVARC newsletter. I hope that it was meaningful for those who read it.

73 de Dick - W7KJZ @W0RLI.#NWOR.OR.USA.NOAM

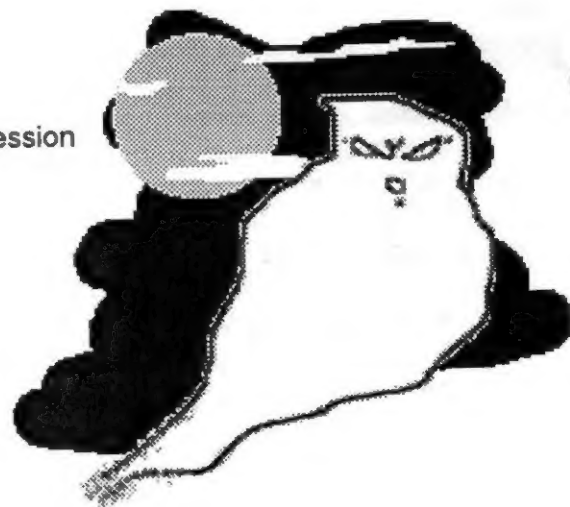
**** Editor's Note ****

Thank you Dick for all the work you have done with this monthly column. I have really appreciated it and will miss hearing from you each month. Stay safe and travel well.

NET LISTINGS

Most of the nets listed below are available anywhere in the Portland Metro Area. The only exceptions are the District 4 ARES Net - Corvallis and the CW Training net - 145.450 which is located on Pumpkin Ridge, near North Plains.

Time (PT)	Freq.	Mode	Net	Notes
Monday				
7:00 pm	145.230	FM	Mazama Net	
7:00 pm	145.270	FM	ATV Net	(PL 169 ?)
7:00 pm	146.840	FM	Portland Amateur Radio Club Net	
7:45 pm	147.100	FM	Hood River A.R.E.S.	
8:15 pm	50.140	USB	6-Meter SSB Check-in Net - NCS KK5CP	Portland
8:30 pm	145.270	FM	YL Net	
9:00 pm	144.240	USB	Single Side Band Net (From Portland Or.)	
Tuesday				
6:00 pm	145.270	FM	DX Repeater Net	(PL 169 ?)
7:00 pm	147.240	FM	Clark County amateur radio club / ARES	
7:30 pm	146.960	FM	Info Net	
8:00 pm	147.240	FM	Clark Co. Radio club swap and shop	
10:00 pm	144.050	CW	2-Meter CW Check-in Net	
Wednesday				
7:00 pm	145.270	FM	Intertie user group	
7:00 pm	50.150	SSB	6 Meter Net	(Bend OR?)
7:30 pm	147.280	FM	Hoodview Radio Club	
7:30 pm	145.210	FM	Computer Nets	
7:30 pm	147.280	FM	VHF Net	
7:30 pm	145.270	FM	Technical Met	
8:00 pm	145.270	FM	Inter - tie check-in	
8:00 pm	145.450	FM	2-Meter CW Code Training Session	
Thursday				
7:00 pm	145.270	FM	Evergreen Technical Net	
7:30 pm	146.960	FM	Info Net	
8:00 pm	145.490	FM	Swap and Shop	
8:30 pm	145.270	FM	YL's net	
9:00 pm	145.270	FM	Packet ragchew	
10:00 pm	144.050	CW	2-Meter CW Check-in Net	
Friday				
8:00 pm	145.270	FM	Youth Net	
Saturday				
9:00 am	145.270	FM	Evergreen Swap and Shop	
Sunday				
7:00 pm	145.210	FM	Clackamas A.R.E.S.	(PL turned off for Net)
7:00 pm	146.940	FM	CC Races Net	
8:30 pm	145.270	FM	Handi Hams	
10:00 pm	145.270	FM	Astronomy Net	(PL. 169 ?)
10:00 pm	144.050	CW	2-Meter CW Check-in Net	
Every Night of the Week				
6:05 pm	147.320	FM	Northwest Traffic and Training Net	
7:30 pm	147.320	FM	Oregon District 1 ARES Net	
7:30 pm	146.760	FM	Oregon District 4 ARES Net	(Corvallis)



If you know of any additional nets in the Metro area, drop me a note and I will make sure to add them.
 Bill - N7VZF - N7VZF@#NWOR.OR.USA.NOAM or e-mail - billm@datacomm.com

1996 Calendar of Interesting Things

Oct 5	Saturday	Walk-Toberfest (Betty N7REX)
Oct 5	Saturday	Oregon State EMD/ARES/RACES workshop - Pendleton
Oct 12	Saturday	Nampa Hamfest
Oct 12	Saturday	North Kitsap Hamfest, Bremerton, WA
Oct 18-20		Travellers Somewhere Bob & Jo Orr
Oct 26	Saturday	Mid-Valley ARES, Rickreall
Oct 30	Wednesday	Fifth Wednesday Radio Contest
Nov 9	Saturday	Bellingham Radio Fleamarket, Ferndale, WA
Nov 15-17		Travellers Depoe Bay Tom & Barb Bailey
Nov 29	Friday	Santa Claus Parade (Jim KB7ADH)
Jun 14-15		SEAPAC 1997

If you would like an event included in the calendar please call Alan Chinnock KB7POR at 636-2237. If it is in reasonably good taste I will include it.

HamFests, Conventions, Swap Meets:

Saturday, October 26, 1996

Mid-Valley ARES proudly presents its 2nd annual **SWAP-TOBERFEST** ARES/RACES convention. The event is scheduled to be held at the Polk County Fairgrounds - West of Salem where Hwy 22 meets 99W. Grand Prize is a VHF HT with a \$100 gift certificate for accessories. This is touted as "A Convention with the Emergency Communicator in mind....". Planned displays include the Oregon State Police Communications Van, the Marion and Polk County Emergency Communications Van, Red Cross and the Civil Air Patrol...[provided vehicles are not actively working an incident]... VE Testing will be available. Contact Evan - N7IFJ - (503) 585-5924. For VE testing pre-registartion contact Sandy - N7TQQ - (503) 588-7685.

Saturday November 9th, 1996

Mount Baker Amateur Radio Club will be holding their Seventh Annual BellingHAM RADIO FLEAMARKET at the Ferndale Band Booster Bingo Hall - NW corner of I-5 and Smith Road Overpass, Ferndale WA. Admission will be \$3 at the door. The fleamarket will feature Ham Dealers, Country Store, Computers, Club & Repeater info, snack bar and VE Exams. Information is available by contacting AI-K7IEY - (360) 354-4622 or Terry VE7BUS/W7 - (360) 354-5868. Talk-in Freq will be 146.74-.

There you have it. Support local economy - Make them all and spend lots of money....

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From the Secretary Alan Chinnock KB7POR

Its that time of year again. It is about time for elections. I know, why do you need me to remind you? Two national conventions on prime time TV and now you get it here too. If only OTVARC could be so lucky. The Democrats have a candidate yelling "Pick me, pick me!!!". The Republicans had a whole bunch of guys saying "I'm the one to be president!!!". OTVARC has no one volunteering to do the job.

Its not like we have not reminded you that we need candidates for the offices of the club. So where are the people who will run the club in 1997? It really would be nice if the nominees were volunteers. People who have to be forced into running seldom make good officers. Those people who really care about the activities and well being of the organization make the best leaders.

This brings up a thought. If the people who care about the club are the ones who run for office to keep the club alive and well and no one is running for office, could it be that no one cares about the club? Naw, that couldn't be it.

We all know that the club has to continue. How else could we have the SEAPAC Convention to go to? Where else are the hams in Washington county going to get together? How do you recruit public service communicators with out a club to work from? Who else is going to promote the awareness and growth of ham radio in the area? What, no more Field Day?

So you tell me, is OTVARC worth a little of your time or not?



Forwarded from oemd@oemd02.oem.state.or.us

MEMO

TO: All County Sheriff's/Local Emergency Managers
FROM: Myra T. Lee, Director
Emergency Management Division,
Oregon State Police

Date: August 14, 1996
RE: Auxiliary Emergency Communications to Oregon
ECC

Most Public-safety communications systems are designed to perform in emergencies at any time of day or night. These systems generally fulfill the demands placed on them by normal conditions or small emergencies and operate within their system design. It is when these systems are expected to perform beyond their design, as in disasters, that volunteer communications are considered as an alternate means of communicating.

In view of this and the recent fire situation throughout Oregon, Amateur Radio resources can be made available to assist and provide an alternate means of communications. Amateur Radio can be activated to provide a communications link to the State Emergency Coordination Center, if needed; from fire command posts back to Local Emergency Management Offices, or Sheriff's Offices; or a link between Red Cross Shelters.

If you do not know who to call for this resource, please access the Amateur Radio Network by calling the following for local coordination and communications resources, in order listed:

Lew Williams Marty McKillip
Specific Amateur Radio links to State ECC
contact the OERS Duty Office 1-800-452-0311

OTVARC Club Contacts

OTVARC Executive Board

President	Jim Schaeffer	KB7ADH	245-2518
Vice President	Neil McKie	WA6KLA	649-4264
Secretary	Alan Chinnock	KB7POR	636-2237
Treasurer	Brad Beach	N7NVC	657-1781
Trustee			
Trustee	Chuck Mickley	KI7CL	642-1284
Trustee	Janet Bell	WB7FJC	648-4147
Trustee	Al Berg	WB7SIC	640-5456
Trustee	Stan Griffiths	W7NI	649-0837

Other Club Contacts

ARRL Coordinator	Bob Orr	WF7Q	297-2732
Bunny Hunting	OPEN		
Contesting	OPEN		
DX News	Rich Jones	KG7FS	645-9417
Equipment Valuation	Randy Stimson	KZ7T	297-1175
Equipment Trustee	Al Berg	WB7SIC	640-5456
Emergency Services			
Field Day	Carl Clawson	WS7L	629-5796
Health & Welfare	Mary Berg	N7TRW	640-5456
Member Badges	Carl Clawson	WS7L	629-5496
Newsletter Editor	Bill Merwin	N7VZF	644-1974
Newsletter Layout	Bill Merwin	N7VZF	644-1974
Newsletter Distribution	Al Berg	WB7SIC	640-5456
Nominating Committee	Hanford Van Ness	KE7BB	246-7975
Packet - Club BBS	Rick Braun	KB7OGD	645-1490
Project Night	Alan Chinnock	KB7POR	636-2237
	Chuck Mickley	KI7CL	642-1284
Public Relations	Bill Merwin	N7VZF	644-1974
Public Service	Randy Stimson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
RFI & TVI	Dale Mosby	N7PEX	640-0217
Satellites	OPEN		
Scholarship	Carl Clawson	WS7L	629-5796
Sea-Pac	Al Berg	WB7SIC	640-5456
	Brad Beach	N7NVC	657-1781
	Jim Schaeffer	KB7ADH	245-2518
	Randy Stimson	KZ7T	297-1175
Technical	OPEN		
Tower Ordinances	Stan Griffiths	W7NI	649-0837
Trailer	Dee Lynch	KA7NPN	646-4580
Training(Code)	Burt Rooke	KI7JX	241-2891
Training(Novice/Tech)	Burt Rooke	KI7JX	241-2891
Training(Upgrade)	OPEN		
VE Test Group	Gerry Villhauer	WA0UCQ	693-7222
VHF/UHF	OPEN		

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OTVARC Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a Not-for-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service through the following five objectives:

1. Education & Training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

Special Service Club OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

Newsletter: The *OTVARC Oscillator* is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views and recommendations of its contributors are not necessarily those of the Club, its officers, advertisers or the editorial staff.

Correspondence: All correspondence may be sent to OTVARC, PO Box 5132, Aloha, OR 97006-0132.

Advertising: Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time from January through June and July through December. All ads must be paid for in advance. Rates are as follows:

Full Page	8" X 10"	\$200 for 6 mo.
Half Page	8" X 5"	\$125 for 6 mo.
Qtr Page	4" X 5"	\$75 for 6 mo.
Bus. Card	2" X 3"	\$35 for 6 mo.

Meetings: We have two meetings per month. The board meeting is on the fourth Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The general meeting is on the second Wednesday of each month at the Beaverton Elks Club, 3500 SW 104th Ave. (1 block north of Canyon Road). Meetings start at 7PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.

Membership OTVARC is open to anyone who is interested in amateur radio. You do not need to be a licensed radio amateur to join. Dues are as follows: Full member, \$10/yr; Associate member (non-licensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club Treasurer for prorated dues.

How To Join: Simply mail the Member Application and Renewal Form along with your dues to the address above.

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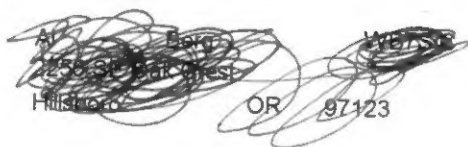
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